MECHANICAL ENGINEERING

Mechanical engineering is the study and development of machines and systems that have useful applications. Mechanical engineers apply the principles and problem-solving techniques of engineering from design to manufacture and marketplace for any product or solution. Mechanical engineering involves systems that use principles of motion, energy, and force ensuring the designs to function safely, efficiently, and reliably at a competitive cost. It is a highly diversified field of engineering. It involves areas such as mechanics, thermodynamics, combustion and energy systems, aerodynamics and fluid mechanics, design and manufacturing and mechatronics.



The mechanical engineering degree has a set of state-of-the-art subjects intended to provide the required knowledge and hands-on skills. The degree program includes lectures, labs, engineering design work and projects. The Mechanical curriculum has been designed in consultation with the industry and academic experts in the field. Hence, the graduates could pursue careers in both academia and industry.

CAREER OPPORTUNITIES

- Mechanical EngineerAutomation Engineer
- Design and ManufacturingIndustrial Engineer
- University Lecturer
- Automobile Engineer
- Maintenance Engineer
- Thermal Engineer
- Entrepreneur
- Researcher
- Mechanical Engineering is a pioneering and broadest field of Engineering and presently diversified into several specialities.
- The Mechanical Engineering undergraduate degree typically begins with basic introductory Engineering courses.
- Once students begin to focus on their major they can expect to find courses in design, manufacturing, mechanics, thermodynamics, and materials.
- Graduates of a Mechanical Engineering program will have both academic and lab experience with projects in the various disciplines that apply directly to Mechanical Engineering.

ENTRY REQUIREMENTS

Minimum of two "C" passes and one "S" pass in GCE Advanced Level (Local) in the Physical Science Stream (Combined Mathematics, Physics and Chemistry) in one and the same sitting and a pass at the Aptitude test conducted by SLIIT OR Minimum of two "B" passes and one "C" pass in GCE Advanced Level (Cambridge or Edexcel) covering Combined Mathematics, Physics and Chemistry in one and the same sitting and a pass at the Aptitude test conducted by SLIIT

YEAR ONE SEMESTER 01	CE1020 ME1050 EC1022 MA1112 EL1203 CE1913	Statics and Hydrostatics Introduction to Engineering Design and Communication Electrical Systems Algebra English Language Skills I Introduction to Sustainable Engineering	03 04 03 04 03 02
SEMESTER 02	ME1031 ME1060 MT1011 MA1122 EC1450 EL1213	Engineering Skills Development Dynamics Engineering Materials Calculus Fundamentals of Programming English Language Skills II	03 03 04 04 03 02
YEAR TWO	ME2011	Mechanics of Solids I	03
	CE2712 ME2021	Fluid Mechanics I Mechanics of Machines I	04 04
SEMESTER 01	ME2031	Engineering Drawing	04
	MA2302	Engineering Mathematics III	03
SEMESTER 02	ME2041	Thermodynamics	03
	ME2051	Mechanical Design I	03
	ME2100 ME2170	Manufacturing Processes I Electrical Plant	03 03
	ME2081	Engineering Sustainable Development	03
	Industrial Tra	Humanities I	
	ME2911	Industrial Training I	03
VEADTUDEE	ME3012	Thermal Engineering Processes	03
YEAR THREE	ME3100	Manufacturing Processes II	03
SEMESTER 01	ME3031	Mechanics of Solids II	04
	ME3041	Mechanics of Machines II Humanities II	04
SEMESTER 02	ME3052	Mechanical Design II	03
SEMESTER UZ	ME3061	Fluid Flow Modelling	03
	ME3020	Automatic Control I	03
	ME3640 ME3081	Mechatronics Systems Engineering Management	03 03
	ME3091	Law for Engineers	03
	Industrial Tra		0.7
	ME3911	Industrial Training II	03
YEAR FOUR	ME4250	Mechanical Engineering Research Project	03
	ME4300 ME4071	Comprehensive Design Project Production and Operations Management	03 03
SEMESTER 01	ME4132	Professional Practice	03
		odules from the following:	
	ME4111 ME4021	Industrial Management and Marketing Advanced Engineering Materials	03 03
	ME4030	Vibration	03
	ME4050	Computer Aided Engineering	03
	ME4081 ME4091	Computer Aided Design and Manufacture Energy Technology and Sustainability	03 03
	ME4101	Refrigeration and Air Conditioning	03
SEMESTER 02	ME4250	Mechanical Engineering Research Project	03
	ME4300	Comprehensive Design Project	03
	ME4181 ME4220	Industrial Engineering Automotive Engineering	03 03
	2 Elective Me	odules from the following:	
	ME4140 ME4150	Design for Manufacturing Automatic Control II	03 03
	ME4150 ME4160	Product Design	03
	ME4170	Noise	03
	ME4190 ME4201	Advanced Manufacturing Processes Energy Conservation & Management	03 03
	ME4201 ME4210	Fluid Power Systems and Machinery	03
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 $[\]ensuremath{^*\textit{Electives}}$ to be chosen with the prior approval of the Acadamic Department